

(19) World Intellectual Property  
Organization  
International Bureau(43) International Publication Date  
16 June 2005 (16.06.2005)

PCT

(10) International Publication Number  
WO 2005/054340 A1(51) International Patent Classification<sup>7</sup>: C08G 79/10,  
77/02, C01B 33/26, C09K 21/14, C04B 28/00, C09D  
1/04, C09J 1/00[AU/AU]; C/O - COMMONWEALTH SCIENTIFIC  
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(21) International Application Number:

PCT/AU2004/001694

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(22) International Filing Date: 2 December 2004 (02.12.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2003906679 2 December 2003 (02.12.2003) AU

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2005/054340 A1

(54) Title: HYBRID INORGANIC POLYMER SYSTEMS

(57) Abstract: An inorganic polymer which comprises one or more organic functional groups and which has the following empirical formula:  $R_m[M_2O]_x[Al_2O_3]_y[SiO_2]_zX_q.PH_2O$ , in which: R represents an organic functional group; M is an alkali metal; X is selected from chlorine and fluorine; m is > 0; q is ≥ 0; x is from 1 to 1.6; y is from 1.0; x/y is from 1.0 to 1.6; z is from 3 to 65; z/y is ≥ 1.0; and P is from 3 to 5.